

FIG. 1

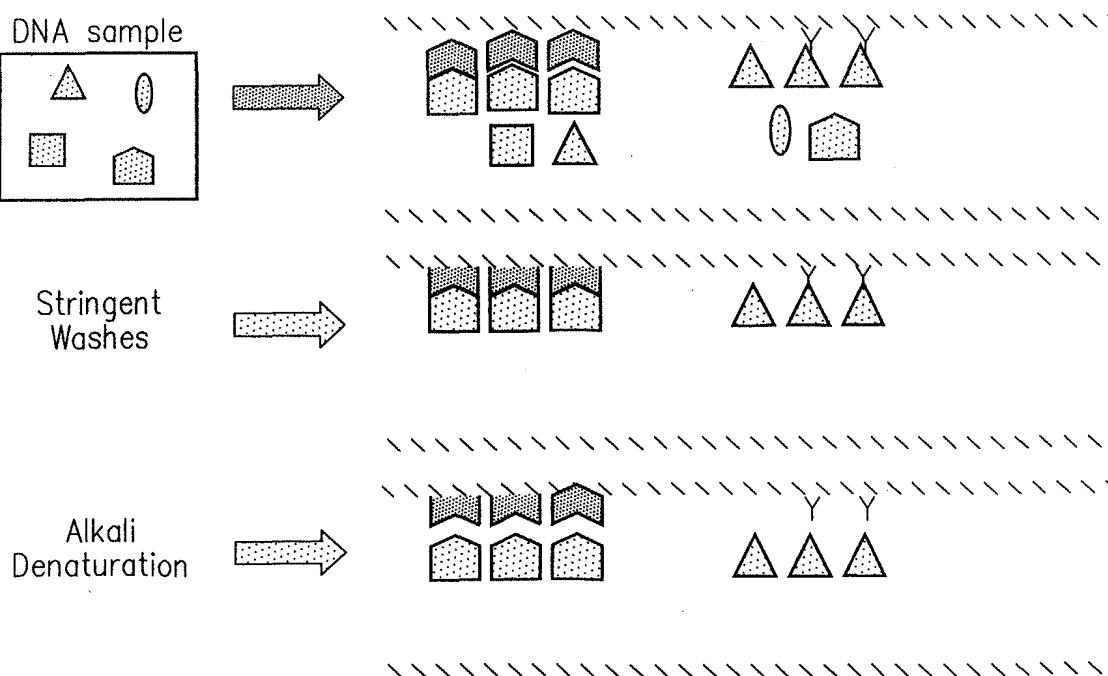


FIG. 2

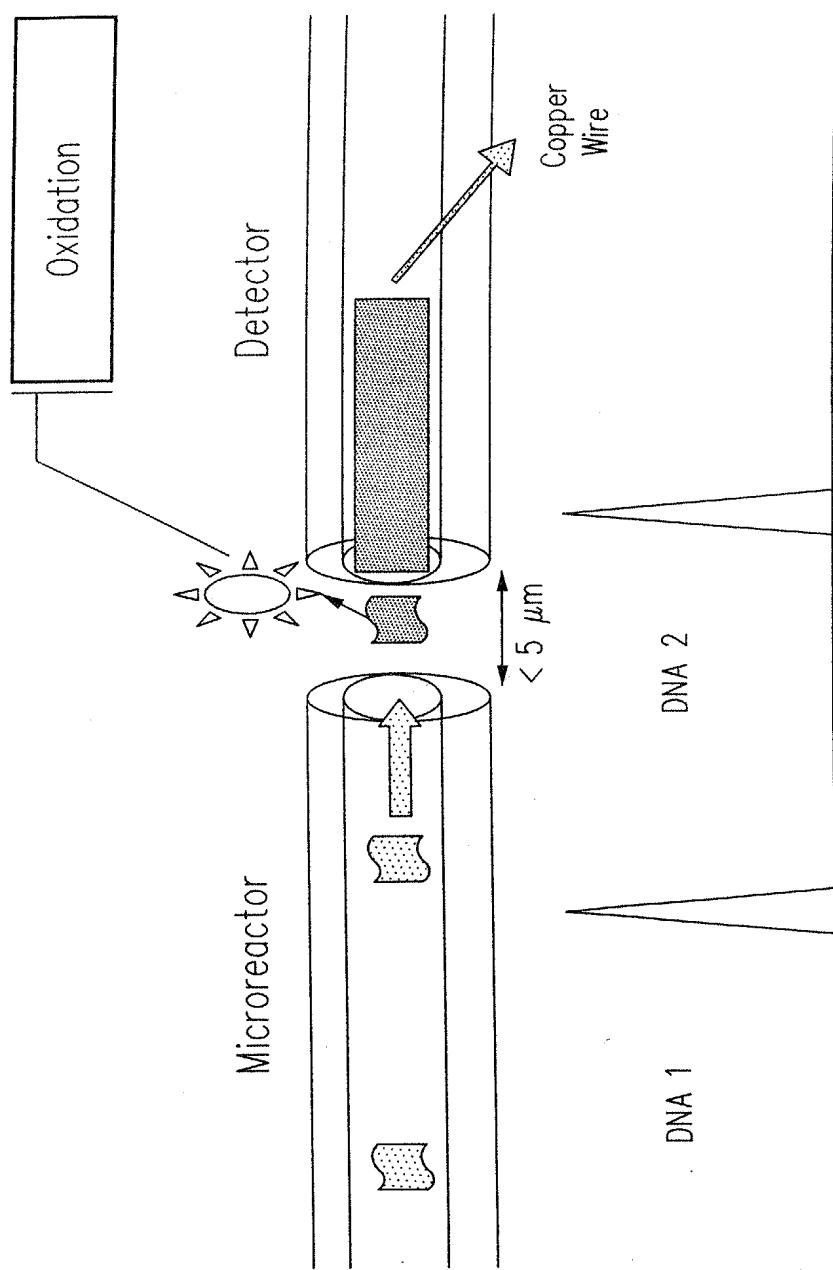
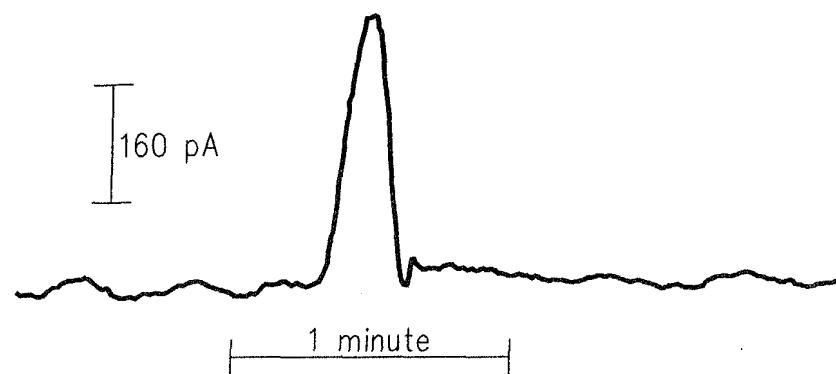


FIG. 3



Capillary DNA-biosensor with TB+HIV Probes Immobilized.  
 Length of each probe zone = 1 cm. Distance between zones = 7 inches  
 Elution of Target with TBE buffer, pH = 11, after 30 minute incubation  
 Detection: Sinusoidal voltammetry with 40  $\mu$ m Copper electrode  
 2 Hz, 0-700 mVp-p sine wave. Response shown at 5th Harmonic.

FIG. 4

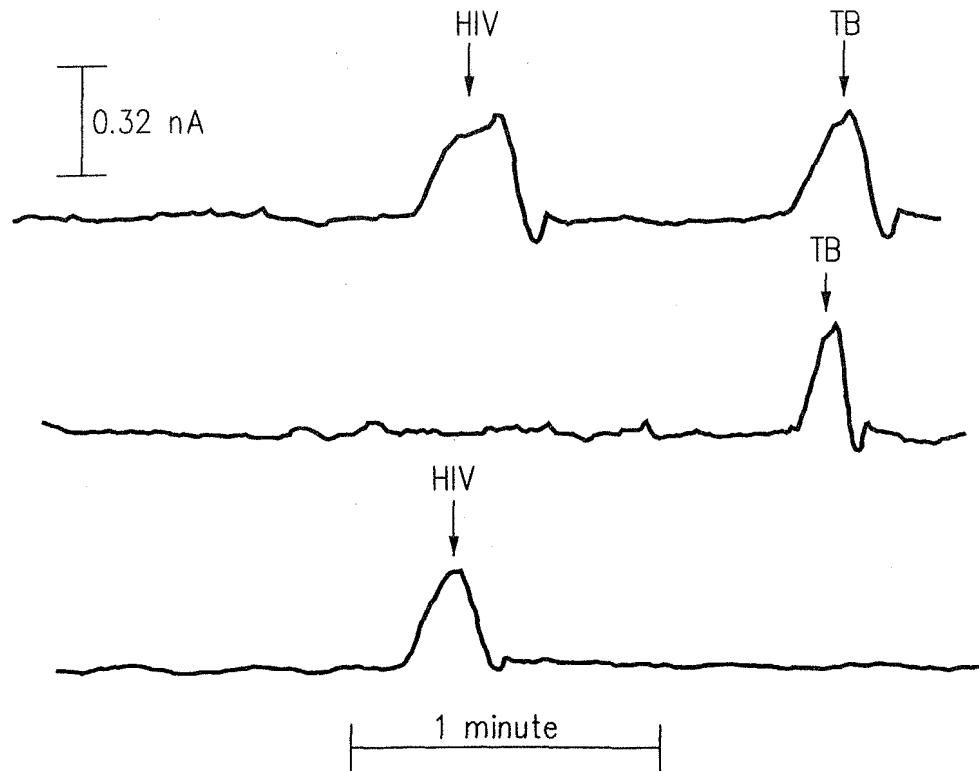


FIG. 5

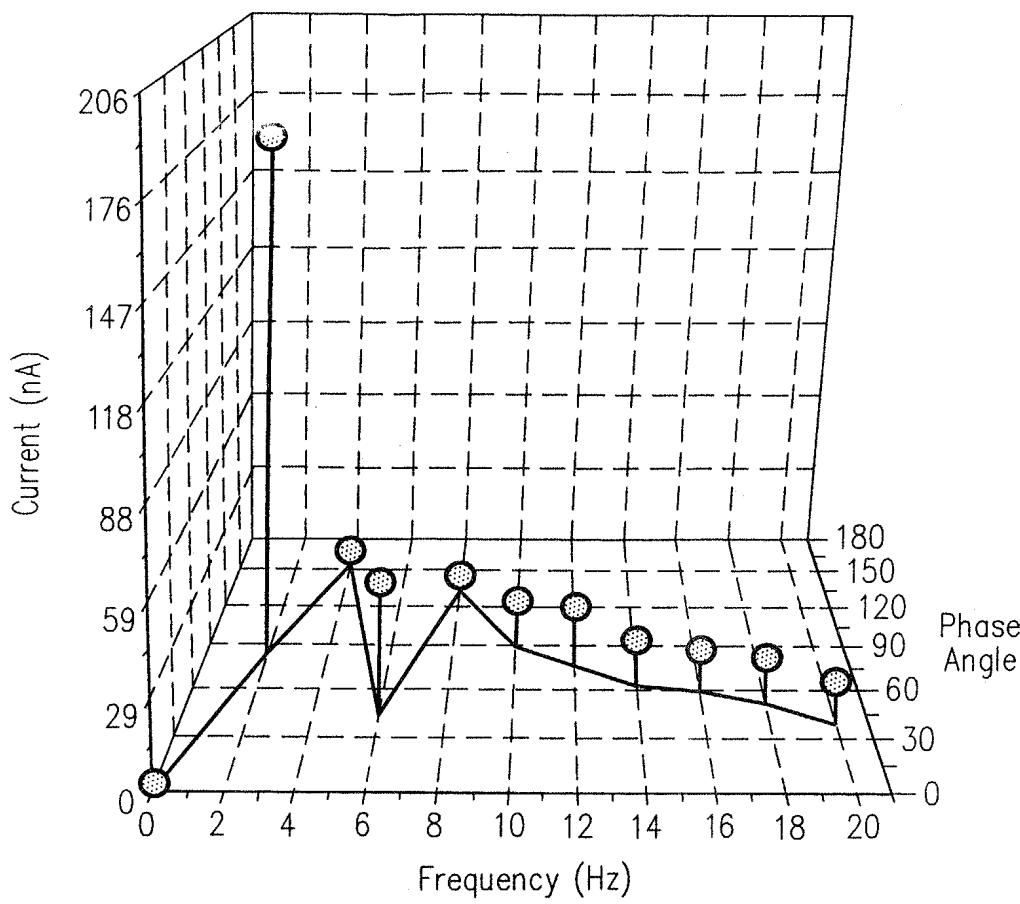


FIG. 6

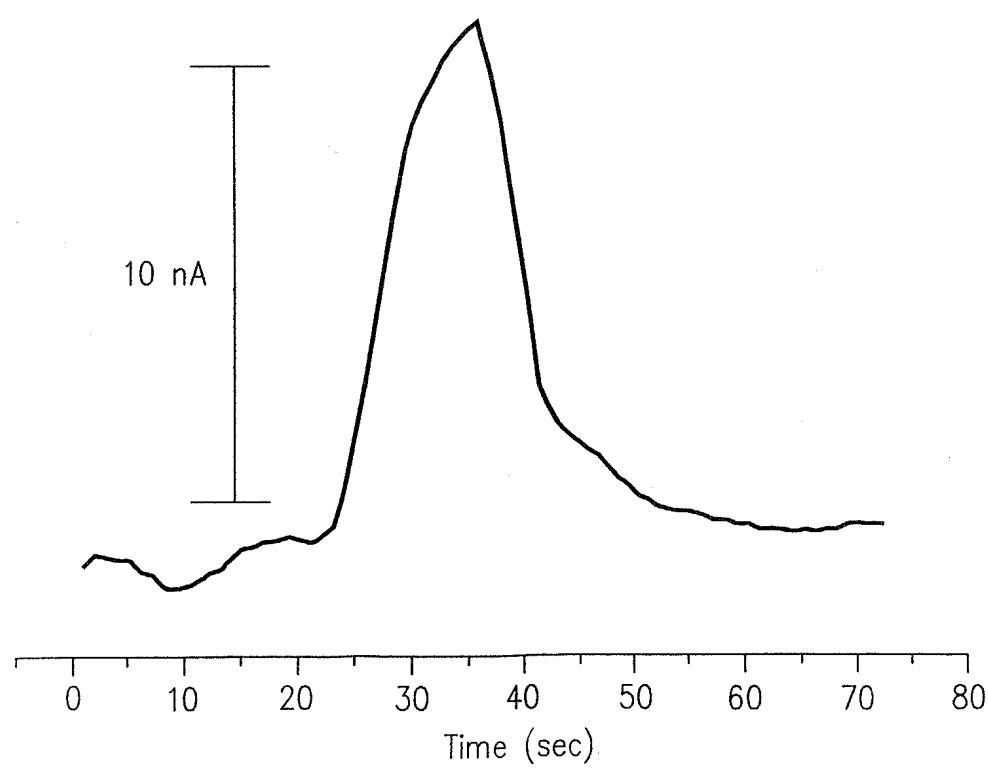


FIG. 7

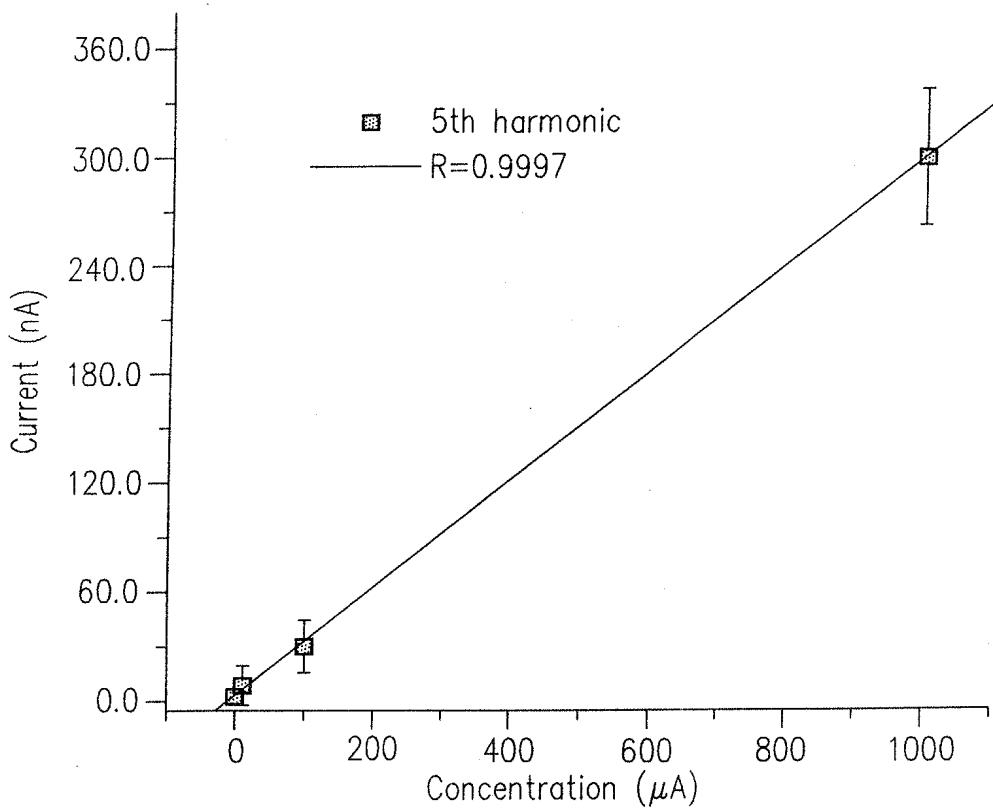


FIG. 8

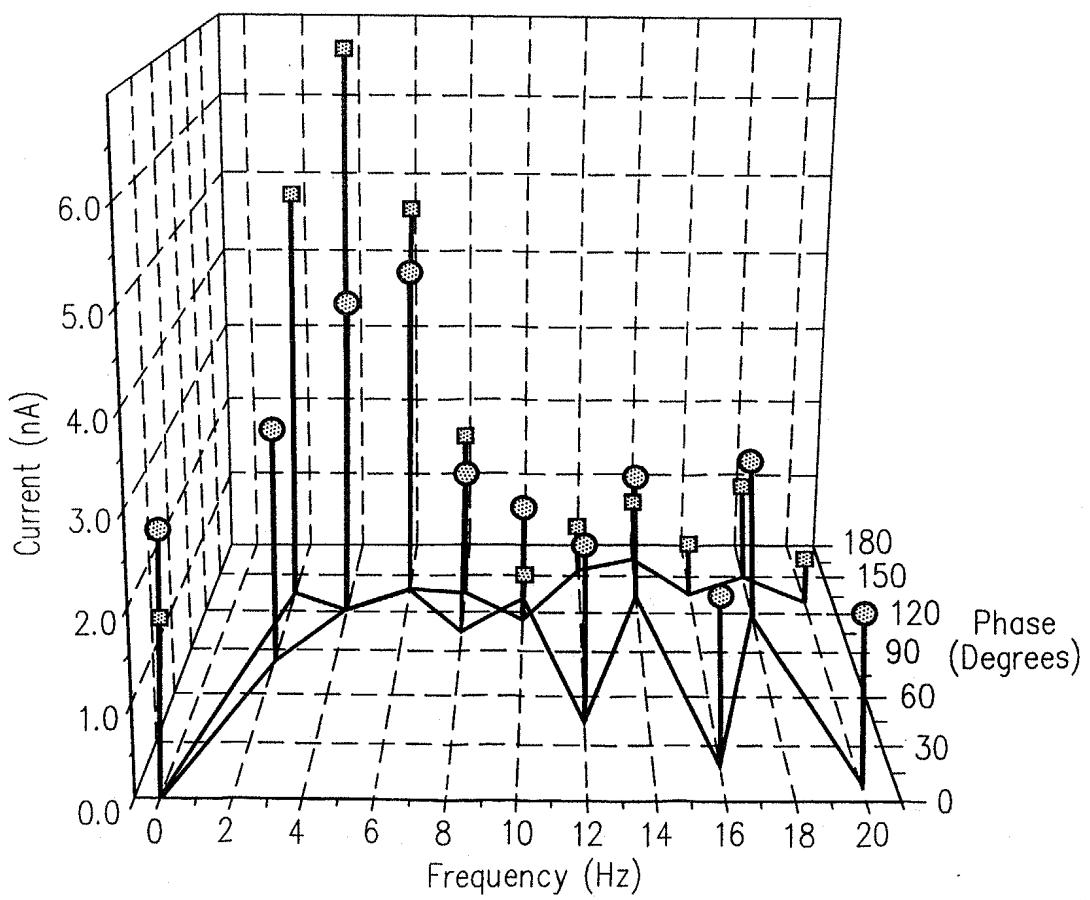


FIG. 9

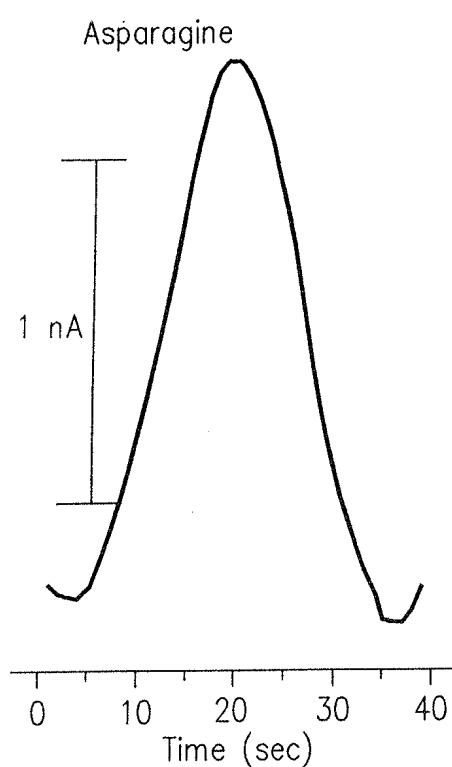


FIG. 10A

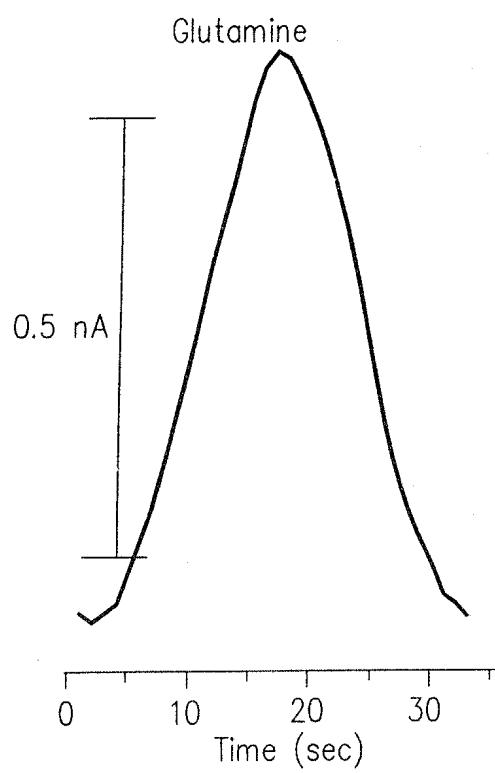


FIG. 10B

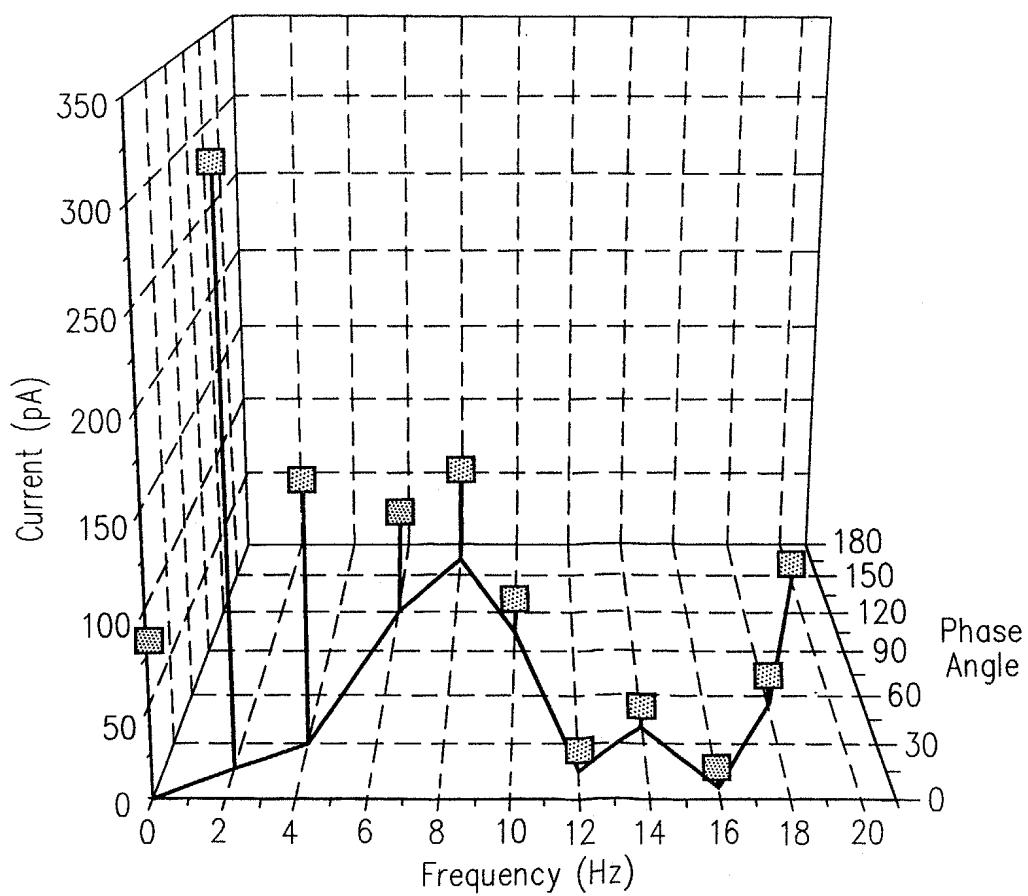


FIG. 11

56 pA

0 20 40 60 80 100 120  
Time (s)

FIG. 12

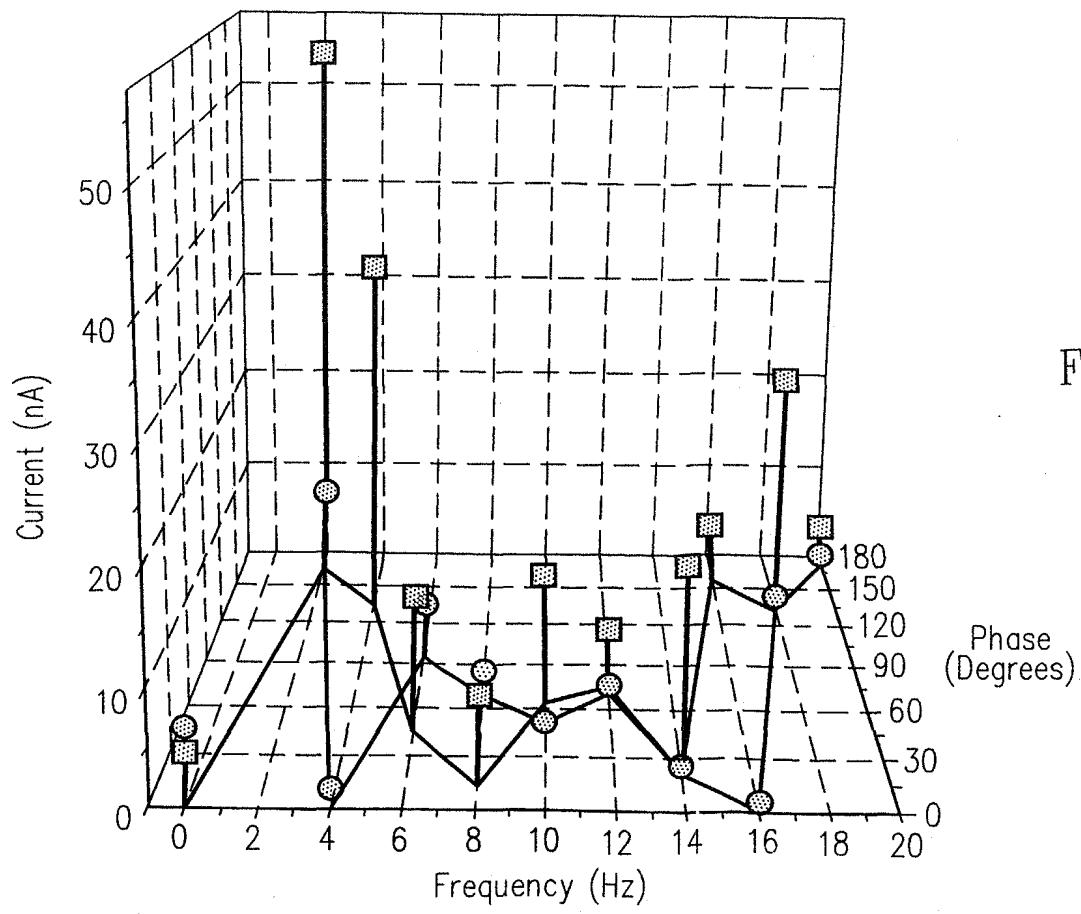
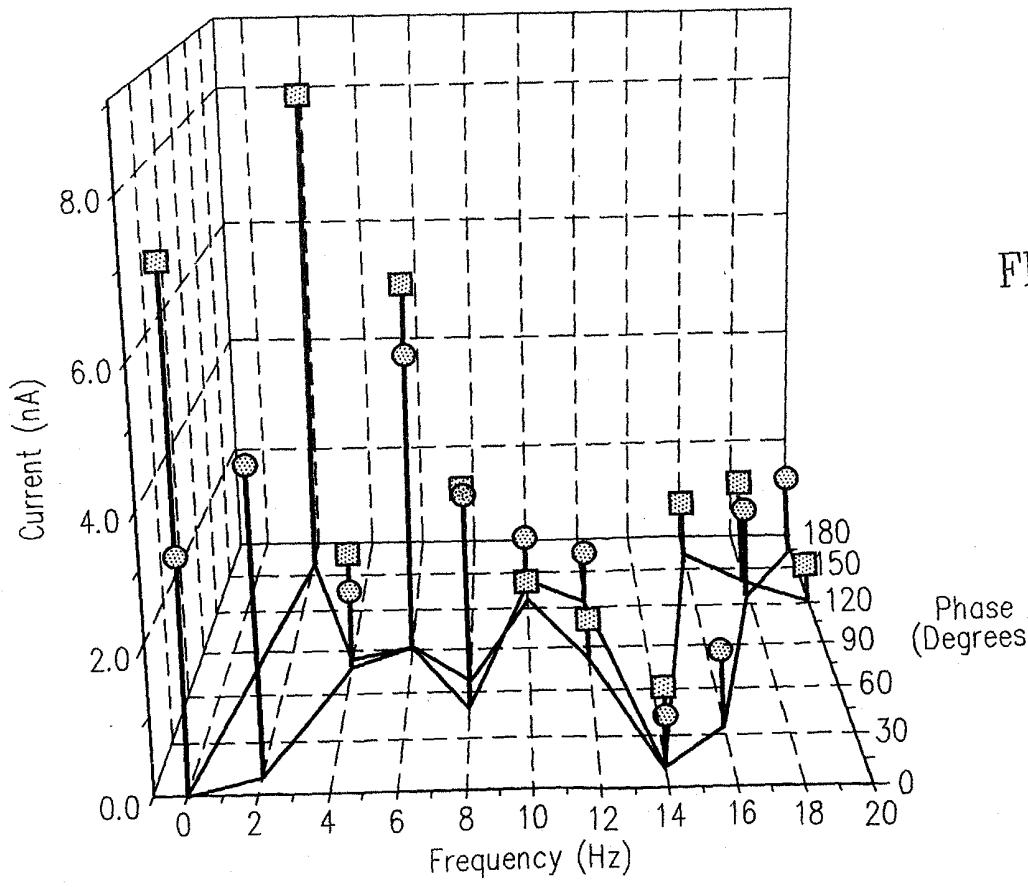
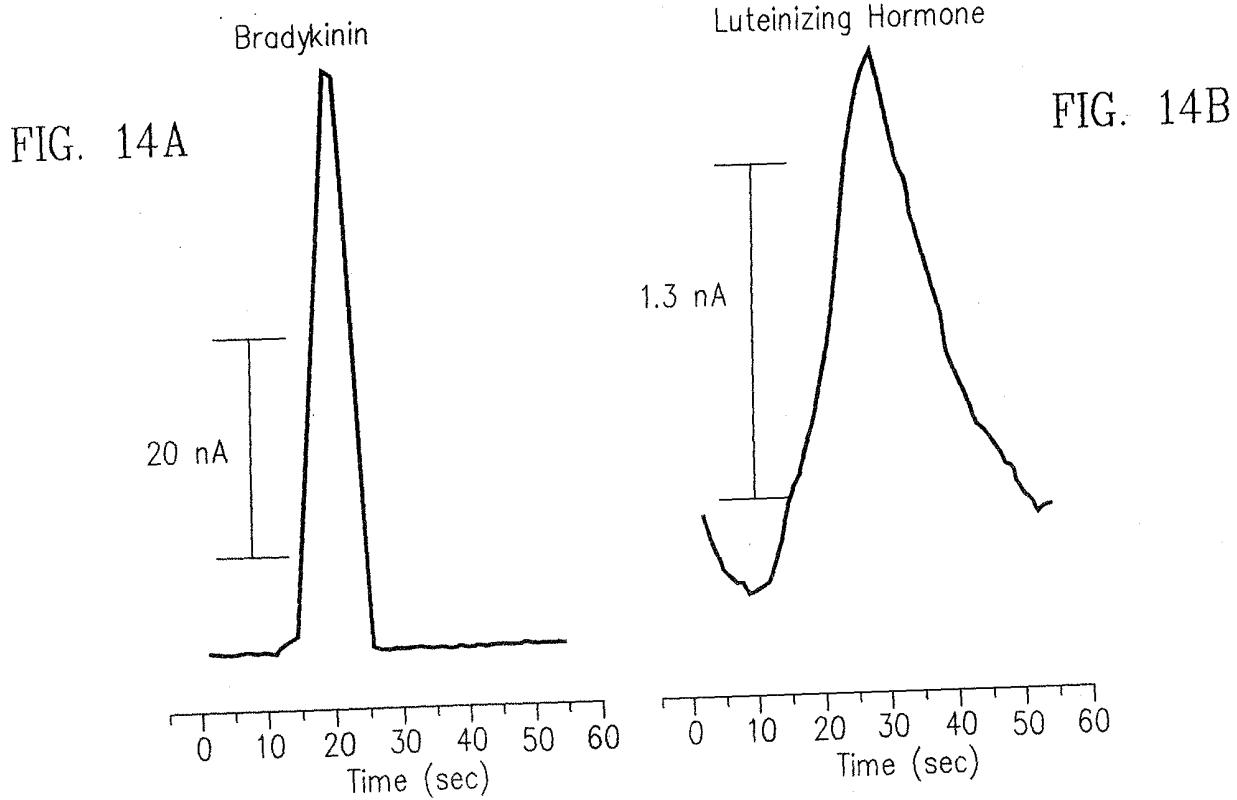


FIG. 13



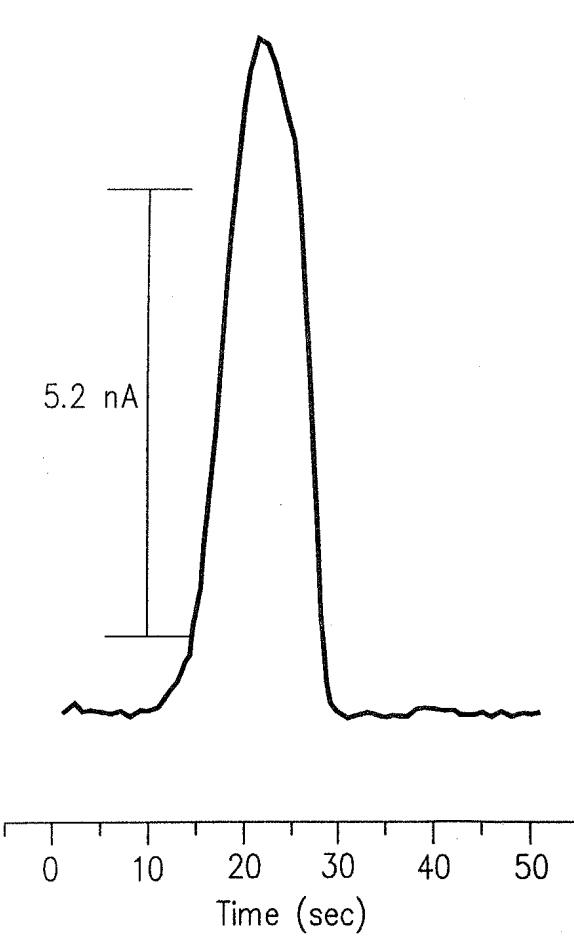


FIG. 16A

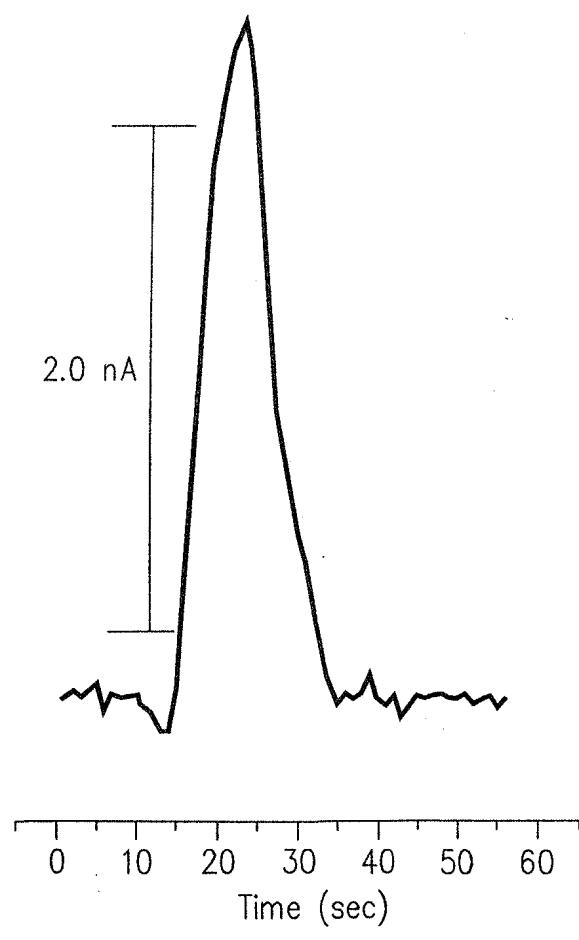


FIG. 16B